

WHAT IS CLAIMED IS:

1. A method of providing telecommunication service to a terminal comprising:

loading a text-based script comprising a service definition identifying a user interface web service and an address of the user interface web service, a signaling web service definition identifying a signaling web service and an address of the signaling web service, a user interface event handler identifying a user interface event type and including a call to the user interface web service, and a signaling event handler identifying a signaling event type and including a call to the signaling web service;

registering with the user interface web service by communicating a text-based message to the address of the user interface web service;

registering with the signaling web service by communicating a text-based message to the address of the signaling web service;

receiving an incoming event;

determining that the incoming event corresponds to one of the user interface event type and the signaling event type; and

communicating a service request to the address of one of the user interface web service and the address of the signaling web service.

2. The method of Claim 1, wherein the service request comprises Extensible Markup Language (XML) commands.

3. The method of Claim 1, wherein communicating comprises communicating using the HyperText Transfer Protocol (HTTP).

4. The method of Claim 1, further comprising receiving a service response from one of the user interface web service and the signaling web service.

5. The method of Claim 1, wherein registering with the signaling web service comprises registering a particular user with the signaling web service.

5 6. The method of Claim 1, wherein receiving an incoming event comprises receiving a text-based incoming event from the signaling web service indicating an incoming call; and the method further comprises sending a ring service request to the user interface web service in response to receiving the text-based incoming event from the signaling web service.

10 7. The method of Claim 6, wherein sending a ring event comprises sending a ring service request to the user interface web service; and the method further comprises receiving an off-hook event from the user interface web service.

15 8. The method of Claim 6, wherein the wherein sending a ring event comprises sending a ring service request to the user interface web service; and the method further comprises:

waiting a predetermined period of time after sending the ring service request;

sending a service request to a voicemail web service, after the predetermined period of time; and

20 sending a stop ringing service request to the user interface web service after sending the service request to the voicemail web service.

9. A telephony device for providing telecommunication service comprising;

an audio output operable to transmit voice output to a user;  
an audio input operable to receive voice input from a user;  
5 a display operable to display information to a user;  
a user input operable to receive an input from the user;  
a network interface operable to receive signals from a network;  
a memory; and  
a controlling process operable to:

10 load a text-based script comprising a user interface service  
definition identifying a user interface web service and an  
address of the user interface web service, and a user interface  
event handler identifying a user interface event type;  
register with the user interface web service;  
15 receive an incoming event;  
determine that the incoming event corresponds to the user  
interface event type; and  
communicate a service request to the user interface web  
service; and

20 a user interface web service, operable to provide low level interface to audio  
output, audio input, user input, and display, and operable to engage in text-based  
messaging with controlling process.

25 10. The system of Claim 9, wherein the service request comprises  
Extensible Markup Language (XML) instructions.

30 11. The system of Claim 9, wherein the controlling process is further  
operable to communicate the service request by using the HyperText Transfer  
Protocol (HTTP).

12. The system of Claim 9, wherein the controlling process is further  
operable to receive a service response from the web service.

13. The system of Claim 9, wherein the controlling process is further operable to receive an incoming event by receiving a text-based incoming event from the network interface indicating an incoming call; and the controlling process is further operable to send a ring event to the user interface service;

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14. A system for providing modular telecommunication service comprising:

a network,

one or more web services,

5 a communication device coupled to the network and coupled to the web service, the device operable to:

load a text-based script, the script comprising a first service definition identifying a user interface web service and an address of the user interface web service, a second service definition identifying a signaling web service and an address of the signaling web service, a user interface event handler identifying a user interface event type; and  
10 a signaling event handler identifying a signaling event type; and  
register with the user interface web service by communicating a text-based message to the address of the user interface web service;  
15 register with the signaling web service by communicating a text-based message to the address of the user interface web service;  
receive an incoming event from the network;  
determine that the incoming event corresponds to one of the user interface event type and the signaling event type; and  
20 communicate a service request to the user interface web service or the signaling web service.

15. The system of Claim 14, wherein the service request comprises Extensible Markup Language (XML) instructions.

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16. The system of Claim 14, wherein the communication device is further operable to communicate a service request by communicating using the HyperText Transfer Protocol (HTTP).

30 17. The system of Claim 14, wherein the communication device is further operable to receive a service response from the web services.

18. The system of Claim 14, wherein the communication device is further operable to register with the signaling web service by registering a particular user with the signaling web service.

5 19. The system of Claim 14, wherein the communication device is further operable to receive an incoming event by receiving a text-based incoming event from the signaling web service indicating an incoming call; and the communication device is further operable to send a ring service request to the user interface service.

10 20. The system of Claim 19, wherein the communication device is further operable to send a ring event by sending a ring service request to the user interface web service; and the communication device is further operable to receive an off-hook event from the user interface web service.

15 21. The system of Claim 19, wherein the communication device is further operable to send a ring event by sending a ring service request to the user interface web service; and the communication device is further operable to  
wait a predetermined period; and  
send a service request to a voicemail web service.

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22. A computer program stored on a computer readable medium, the computer program operable to:

load a text-based script, the script comprising a service definition identifying a user interface web service and an address of the user interface web service, the script  
5 further comprising a service definition identifying a signaling web service and an address of the signaling web service, the script further comprising a user interface event handler identifying a user interface event type and including a call to the user interface web service, the script further comprising a signaling event handler identifying a signaling event type and including a call to the signaling web service;

10 register with the user interface web service;  
register with the signaling web service;  
receive an incoming event;  
determine that the incoming event corresponds to one of the user interface event type and the signaling event type ; and  
15 communicate a service request to the address of one of the user interface web service and the address of the signaling web service.

23. The computer program of Claim 22, wherein the service request comprises Extensible Markup Language (XML) commands.

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24. The computer program of Claim 22, wherein the computer program is further operable to communicate a service request by using the HyperText Transfer Protocol (HTTP).

25. The computer program of Claim 22, wherein the computer program is further operable to receive a service response from the web service.

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26. The computer program of Claim 22, wherein the computer program is further operable to register with the signaling web service by registering a particular user with the signaling web service.

5           27. The computer program of Claim 22, wherein the computer program is further operable to receive an incoming event by receiving a text-based incoming event from the signaling web service indicating an incoming call; and the computer program is further operable to send a ring service request to the user interface service.

10           28. The computer program of Claim 22, wherein the computer program is further operable to receive an incoming event by sending a ring service request to the user interface web service; and the computer program is further operable to receive an off-hook event from the user interface web service.

15           29. The computer program of Claim 22, wherein the computer program is further operable to receive an incoming event by sending a ring service request to the user interface web service; and the computer program is further operable to:  
            wait a predetermined period; and  
            send a service request to a voicemail web service.

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30. A telephony device for providing telecommunication service comprising:

means for loading a text-based script, the script comprising a service definition identifying a web service and an address of the web service, the script further comprising an event handler identifying an event type and including a call to the web service;

means for receiving an incoming event;

means for determining that the incoming event corresponds to the event type of the event handler; and

means for communicating a service request to the web service using the address.